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1" = 20'

November 2020

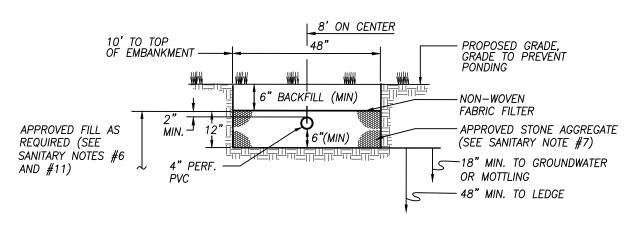
20-2841

Revisions

SHEET NO.

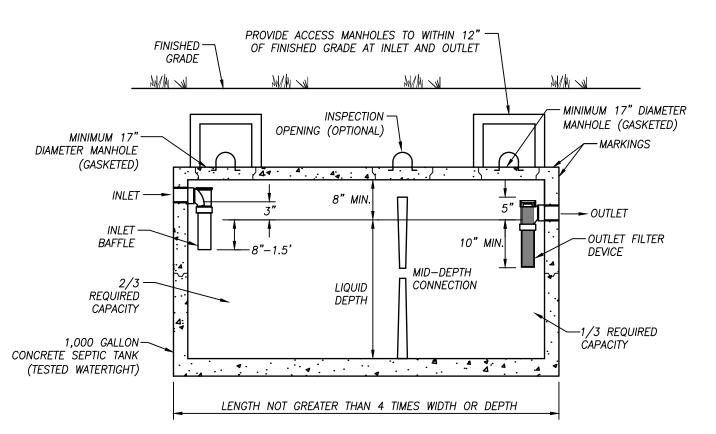
### LEACHING SYSTEM CROSS SECTION A-A

SCALE: 1"=5' (HORIZONTAL & VERTICAL)



# 12" x 48" STONE LEACHING TRENCH

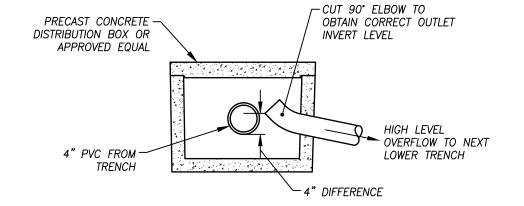
NOT TO SCALE



#### SEPTIC TANK DETAIL NOT TO SCALE

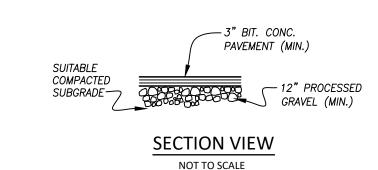
SECTION PLAN

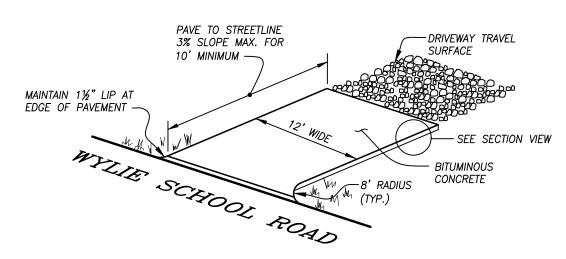
#### D-BOX DETAIL NOT TO SCALE



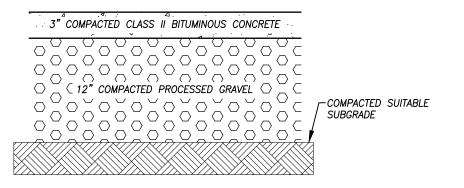
# OVERFLOW D-BOX DETAIL

NOT TO SCALE

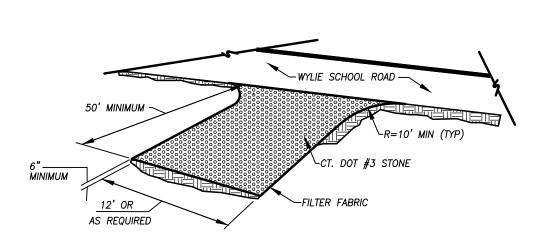




#### TYPICAL DRIVEWAY APRON **NOT TO SCALE**



#### **BITUMINOUS CONCRETE PAVEMENT** NOT TO SCALE



ANTI-TRACKING PAD NOT TO SCALE

#### **SANITARY NOTES**

- 1. THIS SEPTIC SYSTEM INSTALLATION INCLUDING ALL MATERIALS (PIPING, SEPTIC TANK, STONE, FILL, ETC.) USED FOR THIS SEPTIC SYSTEM SHALL CONFORM TO THE CURRENT EDITION/REVISION OF THE "TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS" REVISED JANUARY 1 2018 OF THE CONNECTICUT PUBLIC HEALTH CODE BY THE STATE OF CONNECTICUT DEPARTMENT
- OF PUBLIC HEALTH. 2. THE PROPOSED HOUSE SEWER FROM THE BUILDING TO THE SEPTIC TANK SHALL BE SCHEDULE 40 PVC ASTM D 1785/ASTM D 2665 OR APPROVED EQUAL AND INDICATED IN TABLE NO. 2 OF "TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS". ALL OTHER SEWER PIPE FOR THIS SEPTIC SYSTEM SHALL BE 4" PVC ASTM D3034, SDR 35 WITH RUBBER COMPRESSION GASKET OR BELL AND SPIGOT OR APPROVED EQUAL.
- THERE ARE NO WELLS (POTABLE, GEOTHERMAL, OR IRRIGATION) WITHIN 75' OF THE PROPOSED SEPTIC SYSTEM. THERE ARE NO SEPTIC SYSTEMS WITHIN 75' OF THE PROPOSED WELL.
- 4. THERE SHALL BE NO STUMPS BURIED ON SITE OR BOULDERS BURIED WITHIN 50' DOWN GRADIENT OF THE SEPTIC SYSTEM. SHOULD ANY SIGNIFICANT VARIATIONS FROM THE TEST HOLE DATA BE ENCOUNTERED DURING EXCAVATIONS (LEDGE, GROUNDWATER, MOTTLING, SOIL TYPE, ETC.), THE DESIGN ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF THE SEPTIC SYSTEM. ALL EXISTING UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ALL UTILITY
- LOCATIONS AND ELEVATIONS PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL CONTACT "CALL—BEFORE—YOU—DIG" AT 1—800—922—4455 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION.
- 6. IF REQUIRED, THE PROPOSED FILL FOR THIS SEPTIC SYSTEM SHALL MEET THE FOLLOWING SPECIFICATIONS: A. 100% OF FILL SHALL PASS THROUGH A 3" SIEVE. B. MAXIMUM % OF GRAVEL (BETWEEN #4 & 3" SIEVE) = 45%.

C. GRADATION OF FILL WITHOUT THE GRAVEL SHALL MEET THE FOLLOWING CRITERIA: % PASSING (DRY) <u>SIEVE SIZE</u> <u>% PASSING (WET)</u> 100% 100% 70 - 100% 70 - 100% 10 - 50%\* 10 – 75**%** 0 - 20% 0 - 5% 0 - 2.5%

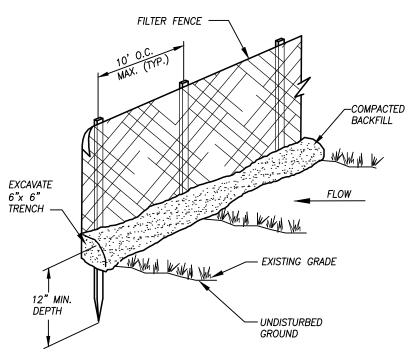
- D. \* PERCENT PASSING THE #40 WET SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%. E. PERCOLATION RATE AFTER PLACEMENT AND COMPACTION SHALL BE FASTER THAN OR EQUAL
- TO 10.0 MINUTES/INCH. A WET OR DRY SIEVE ANALYSIS MAY BE REQUIRED PRIOR TO FILL PLACEMENT TO VERIFY THAT IT MEETS THESE SPECIFICATIONS. THE FILL SHALL BE APPROVED BY THE LOCAL HEALTH DISTRICT/DEPARTMENT OR DESIGN ENGINEER PRIOR TO ITS PLACEMENT ON SITE.
- APPROVED STONE AGGREGATE MEANS CRUSHED OR BROKEN STONE, OR CRUSHED AND UNCRUSHED GRAVEL MEETING THE GRADATION FOR NO. 4 (11/4" STONE) OR NO. 6 (3/4" STONE) AGGREGATE PER DEPARTMENT OF TRANSPORTATION FORM 818 SPECIFICATION M.01.01 (OR LATEST SPECIFICATION). AND THE #40 AND #200 SIEVE GRADATION STIPULATED IN SECTION VIII A. BASED ON A WET SIÉVE ANALYSIS. STONE ÄGGREGATE SHALL BE FREE OF SILT, DIRT OR DEBRIS, AND SHALL SHOW A LOSS OF ABRASION OF NOT MORE THAN 50% USING AASHTO METHOD T-96, AND WHEN TESTED FOR SOUNDNESS USING AASHTO METHOD T-104 NOT HAVE A LOSS OF MORE THAN 15% AT THE END OF 5 CYCLES.

		NO. 4 AGGREGATE	NO. 6 AGGREGATE*
	SIEVE SIZE	<u>% PASSING</u>	<u>% PASSING</u>
	2 INCH	100%	N/A
	1.5 INCH	90 - 100%	N/A
	1 INCH	20 – 55 <b>%</b>	100%
	3/4 INCH	0 - 15%	90 – 100%
	1/2 INCH	N/A	20 - 55%
	3/8 INCH	0 - 5%	0 – 15%
	#4	N/A	0 - 5%
	#40	0 - 3%	0 - 3%
	#200	0 - 1.5%	0 - 1.5%
)	6 AGGREGATE IS	ONLY APPROVED TO BE USED FO	OR LEACHING TRENCHES AN

- \* NO. 6 AGGREGATE IS ONLY APPROVED TO BE USED FOR LEACHING TRENCHES AND PROPRIETARY SYSTEMS ONLY.
- 8. NO DEVIATION FROM THE APPROVED DESIGN PLAN SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE LOCAL HEALTH DISTRICT/DEPARTMENT AND THE DESIGN ENGINEER. THE SEPTIC TANK SHALL BE PRECAST CONCRÉTE UNLESS OTHERWISE AUTHORIZED BY THE DESIGN
- ENGINEER. THE SEPTIC TANK SHALL BE WATERTIGHT AS VERIFIED BY THE LOCAL HEALTH DEPARTMENT/DISTRICT (VACUUM TEST OR WATER PRESSURE TEST) IN ACCORDANCE WITH SECTION V.A.6. OF THE TECHNICAL STANDARDS. IF RISER ASSEMBLIES ARE UTILIZED OVER CLEANOUT OPENINGS, THE COVERS SHALL BE LEFT ON THE TANK. RISER COVERS SHALL WEIGH AT LEAST 59 POUNDS AND A SECONDARY SAFETY LID OR DEVICE SHALL BE PROVIDED INSIDE THE RISER. 10. THIS SEPTIC SYSTEM HAS NOT BEEN SIZED TO INCLUDE CAPACITY FOR A GARBAGE GRINDER OR LARGE TUB. A GARBAGE GRINDER OR LARGE TUB SHALL NOT BE USED IN THE RESIDENCE
- WITHOUT INCREASING THE SIZE OF THE SEPTIC TANK. IF A GARBAGE GRINDER OR LARGE TUB IS DESIRED THEN THE SEPTIC TANK SIZE SHALL BE INCREASED IN ACCORDANCE WITH SECTION V.B.4 OF THE TECHNICAL STANDARDS. WATER TREATMENT WASTEWATER (WATER SOFTENER) SHALL NOT BE DISCHARGED TO THIS SEPTIC SYSTEM.
- 11. SITE PREPARATION PROCEDURE FOR THE INSTALLATION OF THE PROPOSED SEPTIC SYSTEM: A. STRIP ALL TOPSOIL, VEGETATION AND ORGANIC MATERIAL IN THE AREA OF, AND 5' SURROUNDING, THE PRIMARY LEACHING TRENCHES.
- B. EXCAVATE TO DESIGN ELEVATION PER PLAN. USING A HEAVY RAKE OR EQUAL, THOROUGHLY SCARIFY AND ROUGHEN UP THE EXPOSED SUBSOIL. PREVENT ANY VEHICULAR TRAFFIC, BACKHOE, TRUCKS, ETC. FROM SMOOTHING/COMPACTING THIS EXPOSED SUBSOIL C. INSTALL SEPTIC SYSTEM PER PLAN USING APPROVED STONE AGGREGATE AS INDICATED IN NOTE
- D. COVER SYSTEM WITH APPROVED FILTER FABRIC AND A MINIMUM OF 6" OF LOAM IN LAWN AREAS. GRADE TO PREVENT PONDING AND SEED WITH GRASS TO STABILIZE. THE FINISHED GRADE 10'
- FROM ANY PART OF THE PROPOSED LEACHING TRENCHES SHALL BE AT LEAST THE SAME ELEVATION AS THE TOP OF THE RESPECTIVE LEACHING TRENCH. E. ACCESS MANHOLES AT THE INLET BAFFLE AND AT THE OUTLET FILTER OF THE SEPTIC TANK SHALL BE INSTALLED TO WITHIN 12" OF FINISHED GRADE.
- 12. FOR EXACT HOUSE DIMENSIONS, SEE BUILDING PLANS. 13. BENCHMARK TO BE LOCATED IN THE AREA OF DEVELOPMENT PRIOR TO THE START OF
- 14. PRIOR TO CONSTRUCTION, THE HOUSE AND GARAGE, AND SEPTIC SYSTEM SHALL BE STAKED OUT BY A LICENSED LAND SURVEYOR.

## **CONSTRUCTION SEQUENCE**

- SECURE ALL NECESSARY LOCAL, STATE AND FEDERAL PERMITS.
- INSTALL SEDIMENT FENCE AND/OR WOOD CHIP BERM IN SPECIFIED LOCATIONS AS SHOWN DOWNGRADIENT OF PROPOSED DEVELOPMENT AREA. STRIP TOPSOIL FROM DEVELOPMENT AREA AND STOCKPILE AT AN APPROVED LOCATION FOR LATER REUSE. SEED TOPSOIL STOCKPILE WITH RYEGRASS FOR TEMPORARY STABILIZATION.
- PERFORM ALL NECESSARY GRADING FOR DRIVEWAY AND SUBSURFACE SEWAGE DISPOSAL SYSTEM. 4. INSTALL UTILITY CONDUIT. CONSTRUCT HOUSE. INSTALL SUBSURFACE SEWAGE DISPOSAL SYSTEM
- AND WATER SUPPLY WELL. PERFORM FINAL SITE GRADING. AT COMPLETION OF CONSTRUCTION, LOAM ALL DISTURBED AREAS (4" MINIMUM), SEED WITH GRASS AND MULCH. AFTER ALL AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVÉ EROSION CONTROL



SEDIMENT FENCE DETAIL **NOT TO SCALE** 

# **OPERATION & MAINTENANCE OF EROSION**

NO CONSTRUCTION SHALL PROCEED UNTIL PROPER SEDIMENTATION AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED AS THE SEQUENCE OF CONSTRUCTION NECESSITATES.

ALL TEMPORARY FILL, STORAGE OR STOCKPILE AREAS SHALL BE PROPERLY STABILIZED TO PREVENT EROSION AND SUITABLY CONTAINED TO PREVENT TURBID RUNOFF. ALL AREAS AFFECTED BY TEMPORARY FILLS MUST BE RESTORED TO THEIR ORIGINAL CONTOURS AND REVEGETATED WITH SUITABLE VEGETATION. THE USE OF TEMPORARY FILL AND/OR EXCAVATION SHALL BE MINIMIZED TO ONLY THAT AREA REQUIRED TO PERFORM THE WORK.

DUMPING OF OIL OR OTHER DELETERIOUS MATERIALS ON THE GROUND IS FORBIDDEN. THE DEVELOPER OR CONTRACTOR SHALL PROVIDE A MEANS OF CATCHING, RETAINING AND PROPERLY DISPOSING OF DRAINED OIL, REMOVED OIL FILTERS, OR OTHER DELETERIOUS MATERIAL FROM EQUIPMENT USED ON SITE. VEHICLE MAINTENANCE SHALL BE COMPLETED OFF SITE. ALL OIL SPILLS SHALL BE IMMEDIATELY REPORTED TO THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION/HAZARDOUS MATERIALS OFFICE. FAILURE TO DO SO MAY RESULT IN THE IMPOSITION OF FINES UNDER THE APPLICABLE CONNECTICUT GENERAL STATUTES.

EVERY PRECAUTION SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT AND MINIMIZE THE DEGRADATION OF THE EXISTING WATER QUALITY. ALL ACTIVITIES SHALL BE IN CONFORMANCE TO AND CONSISTENT WITH ALL APPLICABLE WATER QUALITY STANDARDS AND MANAGEMENT PRACTICES AS SET FORTH BY LOCAL, STATE AND FEDERAL AGENCIES.

DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES. SAID MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINSTORM. ACCUMULATED DEPOSITS OF SEDIMENT AND SILT SHALL BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION AND SEDIMENT CONTROL BARRIERS, AND UPON ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. SUCH MATERIALS REMOVED SHALL BE SPREAD AND STABILIZED IN NON-WETLAND AREAS WHICH ARE NOT SUBJECT TO EROSION, OR WHICH ARE NOT TO BE PAVED OR

WOOD CHIP BERMS, SEDIMENT FENCE AND OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED, CLEANED AND/OR REPLACED AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD IN ORDER TO MAINTAIN COMPLETE AND INTEGRAL EROSION AND SEDIMENT CONTROL PROTECTION. ONCE IN PLACE, ALL EROSION AND SEDIMENT CONTROL FACILITIES AND MEASURES ARE TO REMAIN IN PLACE AND IN PROPER CONDITION AND BE CONTINUOUSLY MAINTAINED UNTIL FINAL GRADING HAS BEEN COMPLETED. ALL DISTURBED AREAS UPGRADIENT OF SAID FACILITIES HAVE BEEN PERMANENTLY STABILIZED, AND ALL NEWLY GRASSED AREAS HAVE HAD AT LEAST TWO MOWINGS. FOLLOWING SUCH PERMANENT STABILIZATION, THE FACILITIES SHALL BE DISMANTLED, REMOVED, AND DISPOSED OF IN AN APPROVED MANNER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BEYOND THOSE SHOWN ON THE PLANS OR PRESCRIBED HEREIN SHALL BE PUT IN PLACE. WHENEVER NECESSARY. TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE TOWN STAFF OR THEIR DESIGNATED AGENT.

DISTURBANCE OF THE LAND SHALL BE LIMITED TO THE MINIMUM EXTENT NECESSARY TO COMPLETE THE PROPOSED DEVELOPMENT. ALL EXISTING TREES AND SHRUBS SHALL BE CONSERVED WHERE POSSIBLE, EXCEPT THOSE WHOSE REMOVAL IS REQUIRED TO PERFORM THE PROPOSED WORK. THE LIMITS OF DISTURBANCE SHALL BE ESTABLISHED IN THE FIELD PRIOR TO STARTING ANY ACTUAL CONSTRUCTION ACTIVITIES AND SHALL BE GENERALLY AS DEPICTED ON THIS PLAN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE IN ACCORDANCE WITH THE PROCEDURES AS OUTLINED IN THE "GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES" AS ADOPTED BY THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION, EFFECTIVE ON OCTOBER 1, 2013.

THE CONTRACTOR SHALL INSPECT ALL DISTURBED AREAS OF CONSTRUCTION ACTIVITY THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF ALL RAIN EVENTS. WHERE SITES HAVE BEEN TEMPORARILY OR FINALLY STABILIZED. SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH FOR THREE CONSECUTIVE MONTHS.

DURING CONSTRUCTION AND IMMEDIATELY FOLLOWING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE INSPECTION AND MAINTENANCE TO ASSURE PROPER PERFORMANCE OF THE SEDIMENTATION AND EROSION CONTROL SYSTEM. INSPECTING AND MAINTAINING SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- \* INSPECTION OF ALL SEDIMENT FENCE, WOOD CHIP BERMS AND STAKED HAY BALES, REMOVE ACCUMULATED SEDIMENT IF REQUIRED (GREATER THAN 4" DEPTH)
- \* INSPECTION OF ANTI-TRACKING PAD, REMOVE, DISPOSE AND REPLACE IF PAD IS NO LONGER FUNCTIONAL IN THE CATCHMENT OF SEDIMENTS FROM VEHICULAR/TRUCK TRAFFIC. \* INSPECTION OF ALL DRIVEWAY AND PARKING AREAS AFTER PAVING, REMOVE ACCUMULATED SEDIMENT AND ANY LITTER/DEBRIS.

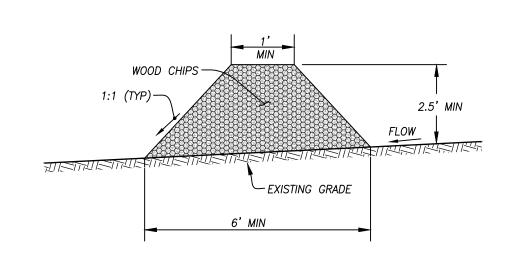
DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO INSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO DOWNSTREAM WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

THE CONTRACTOR SHALL APPOINT AN AGENT WHO SHALL BE PERSONALLY RESPONSIBLE FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN AND ENFORCING THE PRESCRIBED SAFEGUARDS DURING THE CONSTRUCTION PERIOD.

THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN. NOTIFYING THE PROPER TOWN AGENCIES AND OFFICIALS OF ANY TRANSFER OF THIS RESPONSIBILITY, AND CONVEYING A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE OF THE LAND IS TRANSFERRED TO A

#### **EROSION CONTROL NOTES**

- 1. ALL UTILITIES ARE APPROXIMATE. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO ANY
- 2. THE RESPONSIBLE PARTY FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES IS THE SITE CONTRACTOR.
- 3. THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION, CT DEEP BULLETIN 34, SHALL BE USED FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL MEASURES. THE PROPERTY OWNER SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY IF DIRECTED BY THE ENGINEER OR TOWN
- 4. SEEDING FOR PERMANENT STABILIZATION SHALL BE COMPLETED BETWEEN APRIL 15 THROUGH JUNE 15 OR BETWEEN AUGUST 15 THROUGH SEPTEMBER 15. IF SEEDING CANNOT BE COMPLETED WITHIN THESE TIMES, APPLICATION OF TEMPORARY MULCH WILL BE CONDUCTED UNTIL THE NEXT SEEDING PERIOD. SEED MIXTURE SHALL BE AS FOLLOWS:
- KENTUCKY BLUEGRASS 20 LBS/ACRE OR 0.45 LBS/1,000 S.F. CREEPING RED FESCUE 20 LBS/ACRE OR 0.45 LBS/1,000 S.F. PERENNIAL RYEGRASS 5 LBS/ACRE OR 0.10 LBS/1,000 S.F. 5. MULCH SHALL BE A GOOD QUALITY HAY OR STRAW AND SHALL BE APPLIED AT A RATE OF
- APPROXIMATELY 2-3 BALES/1,000 SF. 6. ALL EROSION CONTROL MEÁSURES SHALL BE INSPECTED WITHIN 24 HOURS AFTER RAIN EVENTS WITH GREATER THAN 0.5" OF RAINFALL IN A 24-HOUR PERIOD, AND REPAIRED OR REPLACED AS NECESSARY TO INSURE COMPLIANCE WITH THE APPROVED SOIL EROSION AND SEDIMENT CONTROL



WOOD CHIP BERM DETAIL

NOT TO SCALE

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NOTE: USE 4HDBOX BY

EQUAL

JOLLEY PRECAST,

INC. OR APPROVED

29102 DAVID C. MCKAY, P.E. LICENSE NO.

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Revisions

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